AMENDMENTS TO THE CLAIMS
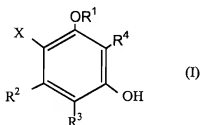
The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

[1]   (currently amended) A compound represented by formula (I),

[Formula 1]

(I)

[wherein wherein

X is a hydrogen atom or a halogen atom;

R^1 is a hydrogen atom or $-(C_nH_{2n})-R'$ (wherein n is an integer of 1 to 5; and R' is a hydrogen atom, a group COOR'' or $-COR'''$ of a substituent on any one of the n carbon atoms, wherein R'' is a hydrogen atom or a C_{1-4} alkyl group; and R''' is a pyridyl group, an amino group substituted with a C_{1-4} alkyl group, a phenoxyalkyl group having a halogen atom on the carbon atoms of the benzene ring or a phenyl group having a C_{1-4} alkoxy group or a C_{1-4} alkoxycarbonyl group on the carbon atoms of the benzene ring);
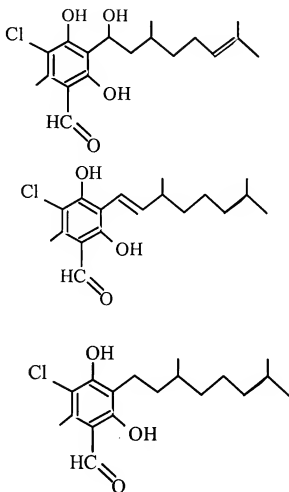
R^2 is a hydrogen atom or a C_{1-4} alkyl group;

R^3 is $-CHO$ or $-COOH$; and

R^4 is $-CH=CH-(CH_2)_p-CH_3$ (wherein p is an integer of 1 to 12), $-CH(OH)-(CH_2)_q-CH_3$ (wherein q is an integer of 1 to 13), $-CH(OH)-CH_2-CH(CH_3)-(CH_2)_2-CH=C(CH_3)_2$, $-CH=CH-CH(CH_3)-(CH_2)_3-CH(CH_3)_2$, $-(CH_2)_2-CH(CH_3)-(CH_2)_3-CH(CH_3)_2$ or $-(CH_2)_8-CH_3$],
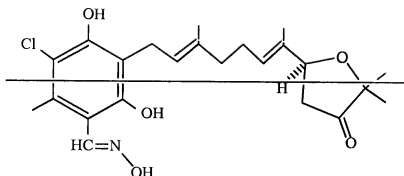
a compound represented by the following formulae,

[Formula 2-1]

[Formula 2-2]

~~[Formula 2-3]~~

an optical isomer thereof or a pharmaceutically acceptable salt thereof.

[2]   (original) The compound of claim 1 represented by formula (I),

wherein

X is a hydrogen atom;

R^1 is a hydrogen atom;

R^2 is a C_{1-4} alkyl group;

R^3 is –CHO; and

R^4 is –CH(OH)-$(CH_2)_q$-CH_3 (wherein q is an integer of 1 to 12),

an optical isomer thereof or a pharmaceutically acceptable salt thereof.

[3]   (original) The compound of claim 1 represented by formula (I),

wherein

X is a halogen atom;

R^1 is a hydrogen atom;

R^2 is a C_{1-4} alkyl group;

R^3 is –CHO; and

R^4 is –CH(OH)-$(CH_2)_q$-CH_3 (wherein q is an integer of 1 to 12),

an optical isomer thereof or a pharmaceutically acceptable salt thereof.

[4]   (original) The compound of claim 1 represented by formula (I),

wherein

X is a hydrogen atom or a halogen atom;

R^1 is a hydrogen atom;

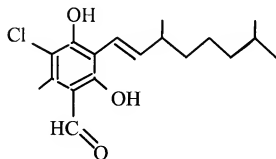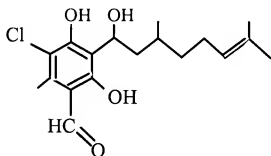R^2 is a hydrogen atom or a C_{1-4} alkyl group;

R^3 is –CHO; and

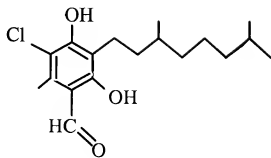R^4 is –CH=CH-$(CH_2)_p$-CH_3 (wherein p is an integer of 1 to 12),

an optical isomer thereof or a pharmaceutically acceptable salt thereof.

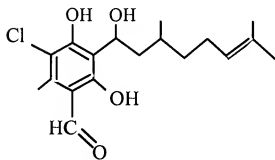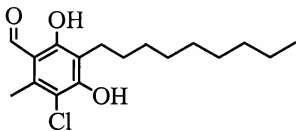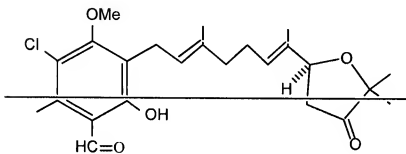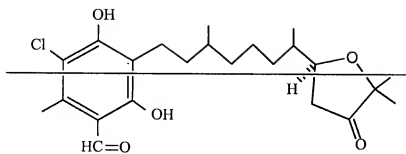[5]   (currently amended) The compound of claim 1 selected from the following
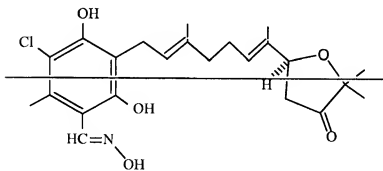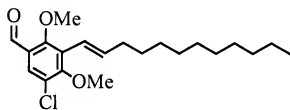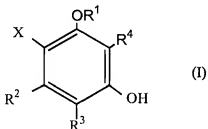
formulae:

[Formula 3-1]

[Formula 3-2]

[Formula 3-3]

an optical isomer thereof or a pharmaceutically acceptable salt thereof.

[6]   (currently amended) A pharmaceutical composition comprising at least one of a compound represented by formula (I),

[Formula 4]

(I)

[wherein wherein

X is a hydrogen atom or a halogen atom;

R^1 is a hydrogen atom or $-(C_nH_{2n})$-R' (wherein n is an integer of 1 to 5; and R' is a hydrogen atom, a group COOR'' or $-COR'''$ of a substituent on any one of the n carbon atoms, wherein R'' is a hydrogen atom or a C_{1-4} alkyl group; and R''' is a pyridyl group, an amino group substituted with a C_{1-4} alkyl group, a phenoxyalkyl group having a halogen atom on the carbon atoms of the benzene ring or a phenyl group having a C_{1-4} alkoxy group or a C_{1-4} alkoxycarbonyl group on the carbon atoms of the benzene ring);

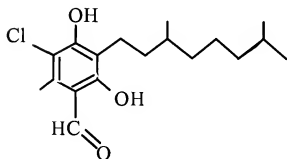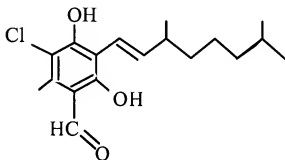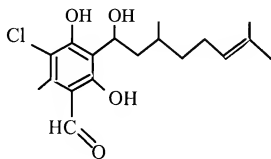R^2 is a hydrogen atom or a C_{1-4} alkyl group;

R^3 is $-CHO$ or $-COOH$; and

R^4 is $-CH=CH-(CH_2)_p-CH_3$ (wherein p is an integer of 1 to 12), $-CH(OH)-(CH_2)_q-CH_3$ (wherein q is an integer of 1 to 13), $-CH(OH)-CH_2-CH(CH_3)-(CH_2)_2-CH=C(CH_3)_2$, $-CH=CH-CH(CH_3)-(CH_2)_3-CH(CH_3)_2$, $-(CH_2)_2-CH(CH_3)-(CH_2)_3-CH(CH_3)_2$ or $-(CH_2)_8-CH_3$],

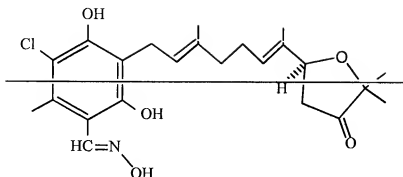a compound represented by the following formulae:

[Formula 5-1]

[Formula 5-2]
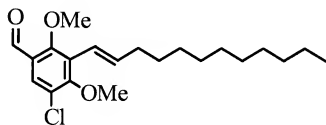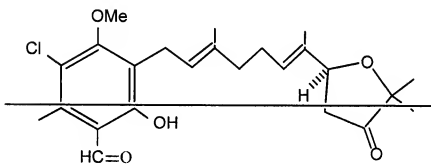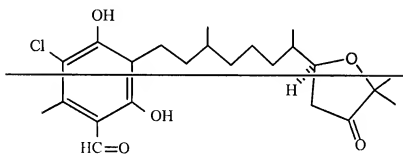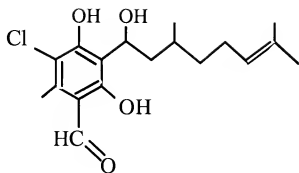
[Formula 5-3]

an optical isomer thereof and an pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

[7]   (original) The pharmaceutical composition of claim 6 comprising a compound represented by formula (I),

    wherein

    X is a hydrogen atom;

    R^1 is a hydrogen atom;

    R^2 is a C_{1-4} alkyl group;

    R^3 is –CHO; and

    R^4 is –CH(OH)–(CH$_2$)$_q$-CH$_3$ (wherein q is an integer of 1 to 12.

[8]   (original) The pharmaceutical composition of claim 6 comprising a compound represented by formula (I),

    wherein

    X is a halogen atom;

    R^1 is a hydrogen atom;

    R^2 is a C_{1-4} alkyl group;

    R^3 is –CHO; and

R^4 is $-CH(OH)-(CH_2)_q-CH_3$ (wherein q is an integer of 1 to 12.

[9] (original) The pharmaceutical composition of claim 6 comprising a compound represented by formula (I),

wherein

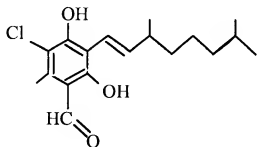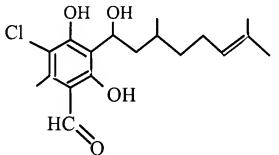X is a hydrogen atom or a halogen atom;

R^1 is a hydrogen atom;

R^2 is a hydrogen atom or a C_{1-4} alkyl group;

R^3 is $-CHO$; and

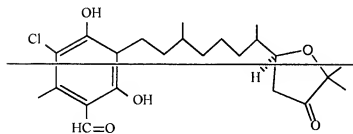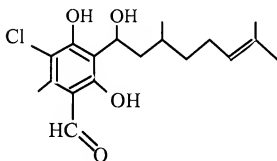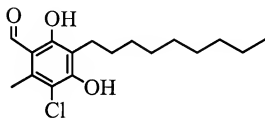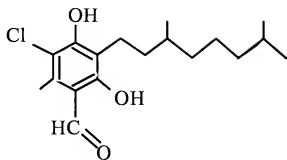R^4 is $-CH=CH-(CH_2)_p-CH_3$ (wherein p is an integer of 1 to 12.

[10] (currently amended) The pharmaceutical composition of claim 6 comprising at least one of a compound represented by the following formulae:
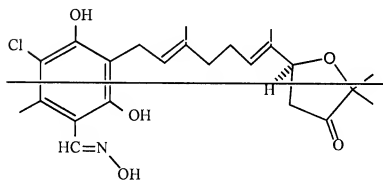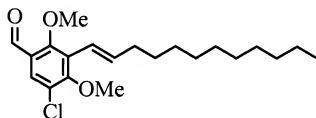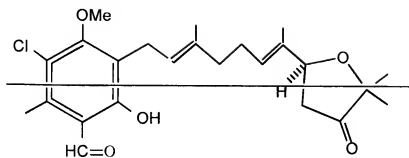
[Formula 6-1]

[Formula 6-2]

[Formula 6-3]

an optical isomer thereof and a pharmaceutically acceptable salt thereof, and a

pharmaceutically acceptable carrier.

[11] (original) The pharmaceutical composition of any one of claims 6 to 10 which comprises glycerin.

[12] – [17] cancelled